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=4-97. In order to turn over the frame, a couple moment is applied as shown. If the component of this couple moment along the a unis is $M_{\star} = \{-204\}$ N·m, determine the magnitude ℓ of the couple forces.





Mr = F (0.3)

There

4-98. Determine the resultant couple moment of the two couples that act on the pipe assembly. The distance from A to B is $d=400\,$ mm. Express the result as a Cartesian vector.

Vactor Analysis

Pasition Venner:

$$r_{np} = (10.35 - 0.35)s + (-0.4cm 30^{\circ} - 0)p + (0.4cm 30^{\circ} - 0)h.) m = (-0.34cm) + 0.30h.) m$$

Couple Manager / With $F_i = (25k)$ N and $F_j = (-50k)$ N, applying Eq. 4 – 12, we have

$$(M_0)_1 = r_{10} \times F_1$$

= $\begin{vmatrix} 1 & 1 \\ 0 & -0.3 \text{ state} \\ 0 & 0 & 30 \end{vmatrix} = (-12.03) \times -1$



Resident Couple Memort :

$$M_0 = 2M_1$$
 $M_0 = (M_0)_1 = (M_0)_2$
= $(-12.16 - 10.16 - 17.3h) N = 0$ And

Scalar Analysis : Sunning nomine about, a, y and a use, we have

$$(M_{\rm s})_{\rm s} = EM_{\rm s};$$
 $(M_{\rm s})_{\rm s} = -35(0.4 {\rm ms}~30^{\circ}) = -12.12~{\rm N} \cdot {\rm m};$ $(M_{\rm s})_{\rm s} = EM_{\rm s};$ $(M_{\rm s})_{\rm s} = -50(0.4 {\rm ms}~30^{\circ}) = -10.0~{\rm N} \cdot {\rm m};$ $(M_{\rm s})_{\rm s} = EM_{\rm s};$ $(M_{\rm s})_{\rm s} = -50(0.4 {\rm ms}~30^{\circ}) = -17.32~{\rm N} \cdot {\rm m};$

Express My to a Curtolian recent, we have

Hibbeler Statics 12th Edition Solutions

Thomas Griffiths

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